

FOLIO

Students' Union Bulges Library's Coffers to Tune of \$100,000

At the 7 December meeting of the Board of Governors, Students' Union President Floyd Hodgins announced that the SU had donated \$100,000 to the University Library. After distributing a news release and reading the motion passed at the 4 December meeting of the SU Council, Mr.

Hodgins was greeted by a round of applause by the Governors and the gallery whose members included Chief Librarian Peter Freeman.

The money, extracted from general reserves, will be used to purchase new books. Indications are that the donation will be matched by the provincial government.

"The donation is much appreciated; it's a tribute to the Students' Union," said Board Chairman John Schlosser. President Horowitz also thanked the SU and said that "no other Students' Union in the country has done anything like this."

The motion reads as follows: "Whereas the University of Alberta library funding is (after inflation) less than sixty-five percent of what it was eleven years ago; and, whereas up-to-date books and materials are needed to help offset this deterioration in the quality of our education; and, whereas the Minister of Advanced Education, Dick Johnston, has announced that the Provincial

Government will continue to match private and corporate donations to Alberta universities via the 1980's Advanced Education Endowment Fund; moved that the Student's Council take \$100,000 from general reserves and donate this money to the University of Alberta libraries for the acquisition of new books."

President Hodgins views the donation as an example of students helping students. "The \$100,000 will help but it is not enough," he says. "Other groups and/or individuals may wish to follow the Students' Union's lead and contribute to the University's libraries. The entire community will benefit from a healthy university." □

Putting a Damper on Vandalism of the Essence

'Tis a pity, this run of vandalism. No one is more aware of that than Gordon Bulat, Director of Physical Plant. Departmental records indicate that between the fiscal years 1979-80 to 31 March 1984, some \$160,000 has been spent righting vandals' wrongs. (The tab ranges from \$19,000 in 1979-80 to \$44,500 in 1983-84.)

There's more news and it's all bad. In the current fiscal year, vandalism costs are already approaching a value equal to last year's total figure and the year is only half over.

"The increase in vandalism and the associated costs are most alarming, particularly at a time when operating funds are at a premium," Mr. Bulat says. It would seem that a crackdown on vandalism is needed if the campus is to escape the fate of a rundown appearance. Physical Plant's hands are all but tied. With indicated budget cutbacks it will no longer be possible for the department to quickly attend to damage caused by vandals.

Doug Langevin, Director of Campus Security, says it is difficult to warn people about vandalism like you can about, say, theft. For one thing, it (vandalism) usually happens after hours.

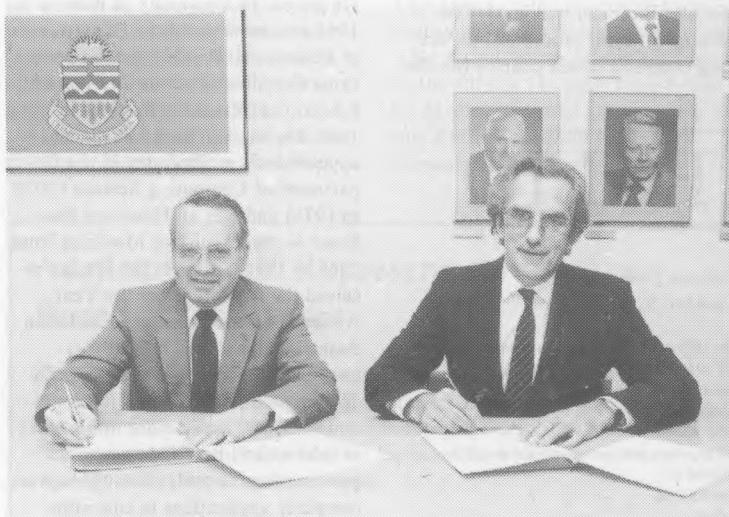
Campus Security's mobile and foot patrols maintain radio contact with the main office around the clock. Anyone who sees an act of vandalism or suspects that one is about to occur is asked to call Campus Security, 432-5252, as soon as possible. □

Food Bank 'Drop-off'

The Faculty of Physical Education and Recreation is pleased to provide a "drop off" for the Edmonton Food Bank at the equipment room (the towel exchange) in the Physical Education and Recreation complex.

From now through 21 December, all users of the building and their friends are encouraged to drop off some food that will assist in making Christmas a little happier for some people.

The Faculty has been advised that the types of food needed are high protein items such as pork and beans, luncheon meats, tuna, ham, corned beef, chicken soup, peanut butter, canned milk (not packaged milk) and baby food. □



The single largest research grant ever awarded by the Medical Research Council—\$6 million to the Protein Group—was accepted by President Myer Horowitz last week. In an open discussion before the presentation, Pierre Bois (right), President of MRC, told scientists that if they want funds for basic research, the public has to understand the importance of basic research. "It is not the right attitude for researchers to say they don't know how to present their field to the public," he said. "Scientists must be conscious of the need to make known their efforts and their production to the public." □

McCalla Professorships Awarded Professors Hunka and Kass

For a nine-month period starting 1 September 1985, Steve Hunka, Department of Educational Psychology, and Heidi Kass, Department of Secondary Education, will be released from teaching responsibilities to concentrate on research for which they have earned international reputations. The release mechanism? Their appointment as McCalla Research Professors, 1985-86.

Steve Hunka

For the past few years, Dr. Hunka's main area of research activity has been the use of computers in support of teaching and research. This interest has been expressed in the development of computer-assisted instruction systems as well as numerical procedures useful in the analysis of data. Recently, he designed and implemented an extensive student, proctor and author support system for computer-assisted instruction. The system operates with any course, and through a series of menus provides the instructor with control, monitoring and instructional support services.

The project on which Dr. Hunka proposes to focus his attention as a McCalla Professor will involve developing efficient procedures for creating computer-based courses (he also

just received word that he is the recipient of a \$148,000, two-year Social Sciences and Humanities Research Council grant for his work and this will enable him to bring in badly needed technical people). The primary task will be to define the domain of actions and processes which are likely to be required by an instructor who wishes to author a course. These actions, such as structuring an instructional strategy and student model, as well as the processes they spawn, will be translated into computer-based processes required to achieve the desired effect. Although the task can be stated in a few sentences, Dr. Hunka estimates that identifying the essence of the actions and processes, together with ensuring their mutual compatibility and efficient representation in terms of computer algorithms, will require the most time and effort before the implementation of an integrated system on a computer can begin.

Dr. Hunka holds BEd and MEd degrees from the University of Alberta and a PhD from the University of Illinois. Before undertaking doctoral studies, he was a teacher with the Edmonton Public School Board. He joined the University of Alberta in 1961 as a member of the Department of Educational Psychology and became Coordinator of the Division of Educational Research Services in 1966. He has also held concurrent appointments as Professor in the Department of Computing Science (1970 to 1974) and was an Honorary Professor in the Faculty of Medicine from 1969 to 1980. In 1976, Dr. Hunka received the Researcher of the Year Award from the Canadian Education Association, and in 1978, he was awarded the Government of Canada Jubilee Medal. Dr. Hunka has an extensive list of publications in his areas of interest and has made numerous presentations to professional groups on computer applications in education.

Heidi Kass

The long-term research interests of Dr. Kass fall into two major areas: (1) studies of cognition and concept learning, and (2) curriculum research in the sciences. She is currently a prin-

cipal investigator on the Canadian phase of a world-wide five-year study of science curriculum, teaching and learning which is sponsored by the International Association for the Evaluation of Educational Achievement (IEA). One of her specific interests involves the relationship between in-school learning and out-of-school learning in science and technology.

During tenure of the McCalla Professorship, Dr. Kass will pursue three interrelated studies. The IEA Second International Science Study is an extension of work under way which is regional, national and international in scope. In addition to being the western regional director for the study, Dr. Kass will oversee the analysis of all of the Canadian data. She will also be giving special attention to the study of science in the media and to computers and their impact on science education.

In a second strand of research she will, as a co-director of another national research team, study the social and personal impacts of microtechnology on youth.

The third area of interest involves collecting interview data from prac-

ticing research chemists in Australia and Canada in order to explore further the nature of contemporary chemistry and its implications for chemical education.

Dr. Kass holds BEd, BSc and PhD degrees from the University of Alberta and an EdM in Science Education from Harvard University. Before joining the Faculty of Education in 1969, she was a teacher with the Edmonton Public School Board. Her contribution to science education has been recognized by two professional organizations in the United States. In 1978, she received the National Science Teachers' Association Medal and in 1979, the Certificate of Achievement of the Association for the Education of Teachers of Science.

She has held offices in a number of professional organizations and regularly makes presentations to research conferences. Her most recent publication was the co-authored eight-volume report on the Second International Science Study which is entitled *A Case Study of Science Curriculum in Canada*. □

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The Office of Community Relations
423 Athabasca Hall
University of Alberta
Edmonton, Alberta T6G 2E8
(403) 432-2325

All enquiries and correspondence should be directed to:
Ron Thomas
Editor

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USE CHRISTMAS SEALS

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The Aftermath of Measles—Understanding a Virus

Measles is a common childhood disease. Many have it. Most recover from it. But in a few rare cases, a child who seems to have made a complete recov-

ery will die within 10 years of a virus infection that is a result of the disease.

First symptoms of the mysterious virus that causes death do not appear

until seven or more years after the child has made an apparently complete recovery.

The boy—the virus usually attacks boys rather than girls—will begin to do less and less well in school; he is unable to concentrate and remember; his behavior deteriorates and he becomes obstreperous and unruly; there is a loss of muscular control, and convulsions may follow. Within two years the child is dead, his brain destroyed by a rare virus, subacute sclerosing panencephalitis (SSPE).

As yet, not much is known about this virus. But discovering and understanding the mechanics and processes by which it attacks and devastates the central nervous system is the research focus of Aimo Salmi, newly appointed Professor of Medical Microbiology.

In an interview with *Folio*, Dr. Salmi described measles as "a relatively new disease. It's only been around for tens of thousands of years." The disease cannot linger dormant, then reappear after a pause; it has to be transmitted directly from one host to another. "There are no carriers of measles," he says. "A certain population base is, therefore, needed for the continual transmission of the disease. This is unlike the herpes virus which has a self-sustaining cycle: surfacing, showing itself, then retreating to lie dormant in the brain until the next time it surfaces."

Vaccination has virtually wiped out measles in North America and West-

ern Europe. Elsewhere it is a virulent killer: in certain countries in Africa every fifth child dies from measles and doctors estimate that 1 1/2 million children in the world die from it each year.

It is the SSPE virus, sometimes occurring in the brain after a case of measles, that Dr. Salmi and his team will be investigating. This is a rare, chronic infection, not in itself infectious, but once manifested, it progresses without stopping until the victim is dead.

An understanding of the workings of the SSPE virus could give scientists a handle on the processes of, for instance, multiple sclerosis: it has been suggested that MS is the result of some kind of childhood infection and that there may be a virus connection. But that is a project for the future.

In the meantime, Dr. Salmi, who only recently arrived in Edmonton from Finland, is settling into research facilities which he describes as "first-rate, with lots of space, good laboratories and good support for medical research."

As a post-doctoral fellow in biochemistry, he spent some time on our campus 10 years ago, working with John Colter on the molecular microbiology of viruses which cause tumors.

Dr. Salmi, whose research is funded by the Alberta Heritage Foundation for Medical Research, expects that his wife and two sons will join him in Edmonton in September 1985. □

Department of Food Science Gains Monetary Weight

Two separate scholarship funds will be established in 1985 thanks to a donation of \$60,000 by the Gardener brothers—Teddy, Theo and Ed. The scholarships will be in Food Science and in a proposed program in hotel and restaurant management.

The Gardeners arrived in Edmonton in the early 1920s, and made a name for themselves in the restaurant business. They are now in retirement.

"We would like to do more for education in Canada," said Ted Gardener, whose family has also established scholarships in their homeland of Greece. President Horowitz, in thanking the brothers for their generosity, commented that they couldn't have selected a more important program, especially since the University is about to consider a program in hotel and restaurant management. It would involve the Department of Food Sci-

ence and the Faculties of Home Economics and Business. Should the proposed program not materialize, the funds will be re-directed to another area at the Gardeners' discretion.

The \$6,000 annual interest will provide the means for three \$1,000 scholarships in Food Science and, perhaps, in hotel and restaurant management. Application will also be made to the provincial government for a grant to match the capital endowment.

Grade 12 students from Alberta high schools who are highly motivated and have a serious interest in studying Food Science are eligible for a scholarship. They may be required to submit an essay, or be interviewed as part of the scholarship criteria. Scholarship winners will also be encouraged to write to the Gardener brothers acknowledging their awards and indicating the progress of their studies. □



The Brothers Gardener, Ted (second from left) and Ed, were greeted by Dr. Horowitz; Allan Holender, Director of Fund Development (left); and Fred Wolfe, Chairman of Food Science.

Academic Staff Representative on the Board of Governors

The term of office of one of the two academic staff representatives on the Board of Governors, R. Coutts, will expire in February 1985. Nomination and election procedures for filling this vacancy are described in the General Faculties Council Policy Manual (section 22), which is available in most administrative offices on campus.

Nominations of full-time teaching faculty, whose candidacy is supported by the signature of five other full-time academic staff, will be accepted by the Secretary of General Faculties Council, 2-5 University Hall, until Thursday, 10 January 1985, 4:30 p.m. Those submitting nominations are asked to ensure that the nominee agrees to the nomination.

Questions may be directed to Ellen Solomon, Secretary of General Faculties Council, 432-5430.

Frank Keeping, 1895 - 1984

Frank (E.S.) Keeping was born on 19 September 1895 at Portsmouth, England. He was educated at Secondary School and Municipal College, Portsmouth and at the Royal College of Science, London, from which he obtained the degree of BSc Honours in 1916. He was also awarded the ARCS in 1916 and the DIC from the Imperial College in 1917.

From 1917 to 1922, he was Chemist Officer in charge of water purification for troops with the Royal Engineers (Electrical and Mechanical Section) in the Mesopotamian Campaign in Iran and Iraq.

From 1922 to 1929 (when he came to the University of Alberta as an Assistant Professor of Mathematics), he was an Assistant Lecturer in Mathematics and Physics at the University College of Swansea (Wales).

In his convocation address of 1 June 1972, Dr. Keeping described the situation at the University of Alberta in his early years.

"The University is very different now from what it was in 1929 when I arrived. Soon afterwards the great depression of the early thirties settled in, salaries were cut, and no increments were given for many years. Practically no building went on and very few staff were hired. For some fourteen years the total mathematics staff remained stationary at 4 or 4 1/2, the half being the instructor (G.B. Taylor) who spent half his time as Assistant Registrar."

The other three who made up the four were Professor Sheldon (Department Head), J.W. Campbell, an applied mathematician and later Department Head, and Alex Cook, a geometer.

Among his students in the thirties was Max Wyman who wrote of Dr. Keeping in 1972.

"It is now forty years since I first met Ernest Sidney Keeping, a period during which he served as teacher, colleague and friend. As I look back on those forty years, I now realize that few people have influenced my life in the way he did. His obvious love for mathematics, and his deep appreciation of its beauty made him a superb teacher, a teacher from whom his students

could learn with pleasure and enjoyment. His broad knowledge of the universe in which we live allowed him to illustrate the importance of the subjects he chose to teach, and students never questioned the relevance of the material which formed the basis of his courses." These sentiments can only be echoed by all of those who were Dr. Keeping's students.

The breadth of his interests and activities is truly astonishing. He was always interested in Shakespeare and in acting, and during his earlier years here, he played a number of roles in productions of the Edmonton Little Théâtre. In 1945, he was made Chairman of a Fine Arts Committee and for awhile was curator of Arts Exhibits. Dr. Wyman commented that "he is the only mathematician that I know who has served as an external examinator involving a PhD thesis in English literature."

Dr. Keeping was a former President of the Science Association, the Philosophical Society, the Humanities Association, the Canadian Institute of International Affairs (Edmonton Branch), the Royal Astronomical Society of Canada (Edmonton Centre), and a founding member and President of the Unitarian Church of Edmonton. He was an active and founding member of the Guild for Medieval and Renaissance Studies, the Science Dining Club and a former President of the University Badminton Club.

He always remained a scholar. Although by training he was a physicist, over the years his scholarly interests extended into applied mathematics and particularly mathematical statistics in which he became a national authority. His research ranged from studies on "Dissociation of Pure Mercury" (1928), through the "Spectrographic Orbit of H.D. 193576" (1949), and "Exponential Regression" (1951) to the "Well-Ordering of Sets" (1959). His three books on mathematical statistics became standard texts.

For most of his years here, Dr. Keeping was virtually the only resource person to whom people could turn to for advice and help on problems in statistics and applied probability. John McGregor, Professor and Chairman of Statistics and Applied

Probability, believes that there were very few who realized the enormous demands which were made on Dr. Keeping's time and energy in assisting colleagues and graduate students, particularly in the Health and Social Sciences, in the design and statistical analysis of their experiments. Nor was it the only University community which he served in this respect. He was a not infrequent consultant to governments (including the U.S. government), industry and even the RCMP. He felt that one of his most difficult problems was trying to explain to an ecstatic inventor that his ideas simply couldn't work. He said, "I try to be as tactful as possible with these people, most of whom write to find out how they can cash in their ideas."

Dr. Keeping was a Fellow of the American Association for the Advancement of Science and a founding member of the Canadian Mathematical Congress (now the Canadian Mathematical Society). He served as Head of the Department of Mathematics from 1954 to his retirement in 1961. For more than 10 years after his retirement, he continued to carry a full teaching load in the department and was perennial Chairman of the

Mathematics Colloquium.

Dr. McGregor remembers Dr. Keeping as "a modest and somewhat reserved man whose warmth and humanity soon revealed themselves on short acquaintance by the twinkle in his eye and his subtle humor. He was perhaps too willing a worker for his own good. At the time of our move into the new Physics Building in 1960, I found him carrying—one in each hand—two of our old Munroc calculators with the apparent intention of transporting all 30 of these to the new office. Of course, I volunteered to see that they were moved—not by me—but by the Department of Physical Plant.

"Among the recreational activities he shared with Silver and their son John were camping and climbing trips in the Rockies. Having reached the summit of Mount Mumm (across from Mount Robson) in the summer of 1962, I looked in a glass jar protected by a cairn and among notes left over the years was one from Frank Keeping. I like to think of it still being there overlooking a landscape he loved in a province and country he served long and well." □

Canadian Forestry Service, University Sign Memorandum of Understanding

The Northern Forest Research Centre of the Canadian Forestry Service, Environment Canada, was located on lands acquired from the University of Alberta in order to encourage cooperative studies between CFS research staff and University faculty members. With the advent of the Forestry Program at the University in 1970, the opportunities for extending these cooperative linkages have increased substantially. The result has been some excellent work of mutual advantage.

In the spirit of recognizing these ties and encouraging further linkages, a Memorandum of Understanding was recently signed by A.D. Kiel, Regional Director of Forestry, Western and Northern Region, Northern Forestry Research Centre, and P.J. Murphy, Associate Dean—Forestry, Faculty of

Agriculture and Forestry. The stipulated purpose is "to facilitate improved research, education and information pertaining to the planning and management of the forest resource." It is based on the underlying philosophy of the Forest Sector Strategy for Canada, and aimed at development of a strengthened forest resources base for educational, economic, social and environmental benefits.

The memorandum is an enabling document permitting cooperative activities and mutual assistance in eight general areas. The agreement is not binding, but reflects the positive spirit of mutual interest which has emerged. The agreement will be of particular benefit in strengthening opportunities for graduate studies and research. □

Faculty of Business Building Ever So Welcome

Four names, a dozen moves, and 69 days later, the Faculty of Business has a home.

More than 600 people representing the business, government, and academic communities attended the official opening of the new Faculty of Business Building on 26 November.

Highlighting the ceremonies, which began at 5 p.m., was the address by Premier Peter Lougheed. His remarks stressed the challenges for Alberta in international trade and business.

Brief remarks were given by Roger S. Smith, Dean of Business, who introduced President Horowitz, followed by Julian Koziak, Minister of Municipal Affairs and MLA for Edmonton Strathcona; Dick Johnston, Minister of Advanced Education; Peter Savaryn, Chancellor; John L. Schlosser, Chairman, Board of Governors; and Robert Stollery, Chairman and Chief Executive Officer of PCL Construction Ltd.

Other platform guests included Mrs. Shirley Stollery; Eric A. Geddes, Past Chairman of the Business Advisory Council of the Faculty of Business; William A. Weir, President, A.V. Carlson Construction Corp. Ltd.; Donald G. Bittorf, Principal-in-Charge, Donald G. Bittorf Architects Ltd.; and Peter R. Winters, Chairman, Building Committee, Faculty of Business.

The ceremonies included the opening of the Stollery Executive Development Centre. The Centre was made possible by a gift from Robert and Shirley Stollery which was matched by a grant from the provincial government. The occasion is commemorated by a bronze plaque acknowledging the gift that honors the pioneer Stollery family who came from Suffolk, England, in 1906 to settle in Strathcona, Alberta. During their first year, they lived in a tent in the bush in Garneau, quite close to the site of the University.

Situated as a partial fifth floor atop the Faculty of Business Building, the Centre contains a seminar room and a large conference room for meetings, lectures and courses. Both lead into a rooftop patio overlooking the Arts Court. A kitchen provides facilities for receptions.

The Centre will enable the Faculty of Business and the University to in-



Premier Peter Lougheed was one of many distinguished guests who attended the official opening of the Faculty of Business Building last month. He is seen above talking with Robert and Shirley Stollery during the reception held in the Stollery Executive Development Centre following the ceremonies. In his address, Mr. Lougheed referred to the "significant progress made by the University over the years" and emphasized that it "must play a leadership role in the area of international trade for here, in the Faculty of Business, and on campus, you have the resources and talent to make a major contribution."

teract with and serve the professional and management community more effectively. Meetings will ensure that the Faculty and the University remain aware of existing needs and practices, and that the community is better aware of the Faculty's interests and capabilities.

Similar facilities are found in leading North American business schools and are well-utilized. This Centre is an important step in the further development of the business school at our University.

A reception and tours conducted by students of the Faculty of Business followed the formal opening ceremonies.

The Faculty of Business began as the School of Accountancy in 1915-16 within the Faculty of Arts and Science and was housed in the Arts

Building. In 1928, it became the School of Commerce; and in 1960, it became the 10th Faculty of the University. Two years later, it moved into what became known as the Commerce Hut—the old infirmary built during the Second World War—and grew from there. Faculty increased. Courses and programs grew. The Faculty split and moved into spaces around the University as they became available. Planning for a new building began. Then questions arose over the site of the building and the possibility of renovating an old building. Funding was delayed and priority was given to other University projects. The Faculty divided and moved again. Then the building boom ended.

Planning for the new building continued throughout the 1970s and early 1980s. In 1982-83, the Faculty

occupied parts of the Central Academic Building, Athabasca Hall, Athabasca Annex, and the South Laboratory Building. Even with the construction of the new building, limited space requires that some graduate student study space remains in the South Lab.

Funding of \$17 million for Phase I of the Faculty of Business Building was announced in the Legislature in March 1982. Construction began in the Fall of that year, and was completed in the summer of 1984.

Now the Faculty has a centre, a structure, a home that can accommodate the kinds of programs envisioned by both the academic and business communities.

Its four storeys hold modern class-

Continued on page six

rooms equipped with either permanent or portable audio-visual equipment and wired for computer use, computer labs, efficient administrative offices, a quiet and spacious Winspear Reading Room housing the business reference collection of the main University library, and pleasant lounges and study areas on all floors. The largest classrooms, with tiered floors, seat 90 comfortably. Others seat 60. Horseshoe-shaped seating in smaller classrooms is designed for case-study method.

The building design encourages informal interaction among students and faculty. Students from the business and social sciences faculties can meet in the atrium between the Faculty of Business Building and the Henry Marshall Tory Building. An elevated walkway connects the two buildings to the busy HUB Mall—an important link between north and south on the eastern side of campus. □

Golden Bull Awards Well-Named

The National Consumer Council in Britain held its annual Plain English Awards on 12 December. Six Golden Bull Awards were given to the worst offenders and six for the best examples of useful documents. We don't know the winners of the "worst offenders" section but that's probably just as well when one of last year's winners is considered.

"Notwithstanding anything contained herein to the contrary it is declared that the tables of sums assured above

are hereby amended by substituting for the respective sums appearing in the columns headed 'Sum Assured' the sum of £ 1000 reduced by not more than the amount of principal that would have been repaid at the number of years in force of the policy on account of a principal sum of £1000 advanced for the term of the policy at a rate of interest of fifteen per cent per annum and repayable by equal annual instalments including principal and interest." □



Cameron Morrill, a provisional candidate in the PhD Business Management Program, was the recent recipient of a doctoral fellowship from Suncor Inc. Morrill, whose area of specialization is Accounting, has an honours degree in Romance Languages from this University. He is seen receiving the cheque from W.J. Oliver, Vice-President Government Affairs, Suncor. The "eyewitnesses" are Dean Roger Smith (far left); Doug Cox, Chairman, Business Advisory Council; Bob Korkie, Director, Business PhD Program (second from right); and Seha Tinic, Senior Associate Dean.



Coffee goes begging every Tuesday and Thursday morning in the Dean of Agriculture and Forestry's office. With the help of Staff Fitness Coordinator Art Burgess, Dean Berg and members of his office use their coffee break to percolate their persons. The 10-minute sessions involve gentle stretching and flexing set to recorded music. "It's not a fitness routine, just a systematic way of moving around and a pleasant diversion," says Dr. Burgess. The program, called "Exercise Comes to You," can be booked by calling 432-5607.

United Way Campus Campaign Still Being 'Waged'

Although the United Way Campaign is officially over, donations are still being received. To date, 667 members of the University community have donated \$114,843.20. This is \$22,967 less than last year and 63.8 percent of our goal of \$180,000.

With the holiday season approaching, Campaign Chairman

Hugh King urges those who have not yet contributed to share some of their good fortune with those less fortunate.

If you have lost your payroll deduction form, you can call Mr. King at 432-3644 or Meg Poon at 432-3207 for another; or simply send a cheque payable to the United Way to the Payroll Office. □

GFC Nominating Committee Notice

Selection Committee for Director, Boreal Institute for Northern Studies

The Nominating Committee is seeking nominations for one faculty member, not a member of the unit concerned, to serve on the above Selection Committee.

Faculty Tenure Committees

The Nominating Committee is seeking nominations for ten tenured faculty members to serve as alternative members on the above. Those who have suggestions for nominations or who are interested in membership on either of the above are asked to contact Mrs. Plaskitt, 2-5 University Hall, telephone 432-4715. It would be appreciated if a vita could accompany any nomination.

Pre-Retirement Seminar for Non-Academic Staff Planned

Another Pre-Retirement Seminar is planned for Saturday, 12 January, and Saturday, 19 January, to accommodate non-academic staff over age 55 who could not be accommodated at the October seminar. It will be held at the Royal Glenora Club, 11160 River Valley Road, from 8:30 a.m. to 4 p.m. each day.

This seminar will follow the same format as advertised previously, with

Thelma Scambler, guest speakers, and a panel of University retirees. It is sponsored by Personnel Services and Staff Relations and the Non-Academic Staff Association.

There are still a few spaces left so interested employees should submit a registration form along with registration fee of \$10 per person to Personnel Services and Staff Relations as soon as possible. Lunches, coffee

and reference materials are included in the cost.

Questions or concerns should be directed to Brenda MacKenzie at 432-5203.

Plans are under way to schedule a Pre-Retirement Seminar for Academic Staff in 1985. Further information will be available as soon as dates are finalized. □

New Service Initiated by Registrar

In addition to her responsibilities as Unclassified Student Coordinator, Chris Cummins will also be available to assist those students who are in the Part-Time Evening or Off-Campus programs. Students in these two categories have encountered difficulties in the past because they were unable to register during regular working hours. As the "Evening Only Registration Coordinator", Ms. Cummins will mail registration ma-

terial to students, provide assistance and answer all enquiries. Also, she will act as a liaison with Faculty and Department Offices if students require counselling or approvals for course changes or withdrawals.

Chris Cummins can be contacted at 432-4610. Students who are in need of assistance and are on campus during regular business hours should be directed to the second floor of the Administration Building.

*Items reprinted from Rumor, Issue No. 3 December 1984.

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Other specifications: half-tones (100-line screen or less) are acceptable; no colour or bleeds. Camera-ready copy is necessary. There is a charge of 30c per word for typesetting, and \$7.50 for adjustment of design work. Deadline for submission is one week prior to publication (Thursday, 3 p.m.). Acceptance of advertisements and positioning are at the discretion of the editor.

These rates are effective from 1 January 1981. For more information please telephone 432-2325 and ask about Folio display advertising or write to:

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Pope John Paul II Commemorative Scholarships Announced

Dick Johnston, Minister of Alberta Advanced Education, recently announced details of the Pope John Paul II Commemorative Scholarships. The Alberta Cabinet approved the establishment of the scholarships in honor of the visit of His Holiness, Pope John Paul II, to Alberta on 16 and 17 September 1984.

The scholarships are intended to facilitate and promote studies for the well-being of mankind through the advancement of knowledge and the effective application of knowledge to contemporary problems. The awards will focus specifically on native studies, international studies with respect to Third World countries, and ecumenical studies. They are valued at \$5,000 for study at the undergraduate

level and \$10,000 at the master's level.

A maximum of six scholarships will be awarded each year with two at the undergraduate level and four at the master's level. In 1985, the scholarships' first operating year, the Students Finance Board will be awarding three scholarships—one at the undergraduate level and two at the master's level. Deadlines for scholarship application to the Students Finance Board are 1 February for master's awards and 1 July for undergraduate awards.

Individuals eligible for the new scholarships will be residents of Alberta who are enroled in undergraduate or graduate degree studies at an Alberta post-secondary institution. Recipients may qualify for the schol-

arships for a second year of study. Both course content and academic

performance will be considered in the selection of recipients. □

More Books for East Asian Languages and Literatures

For the seventh consecutive year, the Department of East Asian Languages and Literatures has been given books by the Japanese Foundation.

On 30 November, a 20-volume set of encyclopedias, Japanese linguistic dictionaries, and several illustrated works of classical literature were donated. The books are valued at more than \$1,900.

In attendance at the presentation

were D.E. Berghofer, Assistant Deputy Minister of Alberta Advanced Education, who gave the official welcome; T.H. White, Dean of Arts, who formerly accepted the books; and President Horowitz, who conveyed official greetings to Mamoru Funakoshi, Consul-General of Japan, and Masao Motozono, Consul of Japan, who presented the books. □

Holiday Alters Publishing Schedule

Folio will not be published between 20 December and 10 January 1985. Copy for the issue of 10 January must reach the Office of Community Relations by 9 a.m. on 3 January. The deadline for

receipt of advertisements is 3 p.m. that day.

The weekly publishing schedule will resume with the issue of 10 January. □

Russell Stuart MacArthur, 1918 - 1984

Russell Stuart MacArthur, Professor in the Department of Educational Psychology for 26 years, died 28 November of cancer. Best known for his research, field work and publication in mental testing, he was also respected and appreciated as a teacher. One of his students in Ed. Psych 502 Instruction to Educational Research, which many feared because of the statistics, years later wrote to him as follows.

I appreciated your teaching skills in Educational Psychology 502. When I found that it was required on my program I was in fear and trembling, really believing that it was beyond my capabilities. As you presented the material interestingly and logically, building increments on knowledge previously made clear, I began to appreciate the subject in a way I hadn't believed possible. By Christmas I was beginning

to look forward to the classes and the challenge of the material. I remember particularly that when you were asked questions (which often must have seemed stupid to you), you were always interested and tried to clear up difficulties for the students in a non-judgmental way. This is the kind of tribute any university professor would be glad to receive.

Russ MacArthur was born in Alberta in 1918. He obtained a teaching certificate from the Calgary Normal School, taught in Alberta schools and during the Second World War for the RCAF. His BEd and MEd degrees were obtained at the University of Alberta. His PhD from London brought him into close association with such distinguished professors as P.E. Vernon and H.J. Eysenck. The main direction of his scholarly activities was in studying the abilities of native populations and in developing culture re-

University of Alberta International Development Register

The President's Advisory Committee on International Development invites faculty and staff with experience/interest in international development to lend their expertise to the Register.

A publicly available data bank, the Register lists about 400 individuals at Alberta universities who have lived and worked for three months or more in countries other than Canada, the United States, and those of Western Europe. Each person listed is asked to update his or her section on an annual basis.

Other faculty and staff with similar interests and concerns can be consulted readily. Referrals to people listed in the Register allow Alberta universities to respond quickly and effectively to enquiries about international development.

You can search Register data by signing on to your MTS account and entering the command \$LIST PCI3:DINT.DOC To run the program, simply enter \$RUN PCI3:DINT

For further information or to join the Register, contact:



International Development Register
3-20 University Hall
University of Alberta
Telephone 432-5660

duced tests that reflected those abilities. His field work with native peoples brought him into direct contact with Indian and Métis groups in Alberta, with Indian and Eskimo groups in the Northwest Territories, and with groups as far away as central Africa and New Guinea. The following quotation from the *Alberta Psychology Calendar* 1982 expressed the esteem with which Dr. MacArthur was held by his peers:

"Psychological testing has come under criticism in recent years, especially when it is seen to discriminate against the poor, disadvantaged and those from other cultures. Russ MacArthur has long been aware of the cultural biases of tests and has focused much of his work on understanding these cultural differences."

For three years before joining the staff of the University of Alberta in 1955 he had been Assistant Director of the Canadian Education Association—W.K. Kellogg Project, a Canada-wide program in educational leadership. He helped the University to obtain Kellogg and Carnegie grants which launched the program in Educational Administration at the University, and promoted the research and doctoral programs of the Department of Educational Psychology. He obtained a \$41,540 Canada Council grant, a first for education, for his 1969 to 1974 studies of cognitive development in interaction with ecological/cultural conditions.

His contributions through teaching, research and cross-disciplinary work have been recognized through many honors. He was awarded a Fellowship in the Canadian Psychological Association (1974), honorary membership in the Psychologists' Association of Alberta (1977), and just before his death, an Alberta Achievement Award for Excellence (24 November 1984).

Education has lost a towering figure in the death of Russ MacArthur. □

Letters

'Colloquy' Callback

■ Thanks for publishing J.W. Osborn's essay on lecturing in the "Colloquy" column. Wading through the days and weeks with two courses to teach I'm usually in a bit of a trance at the end of a University term.

Having just read Osborn I'm feeling a little more in touch with what I want to do, and try to do. And somewhat comforted.

Robin Hunter,
Political Science

■ An intelligent person can explain a very complex theory to the man on the street. Whereas, university professors talk to each other in a language that nobody else can understand.

D.C. Secord,
SMR. Animal Centre

people

L. Zack Florence (Forest Science) was one of approximately 30 molecular and forest geneticists sponsored by the Institute of Forest Genetics, U.S. Forest Service, Berkeley, California, to participate in a workshop on "Genetic Engineering in Forestry," 3 to 6 December. Dr. Florence was among those invited to give a presentation on current topics in forest genetics; his was entitled "Plant Biotechnology Applications to Forest Trees in Western Canada: research studies at the University of Alberta." The Institute used the workshop format as a forum for the exchange of information and as a source of input and direction for the U.S. Forest Service's new program in basic biological research. The University of Alberta was the only Canadian university represented.

Sara Stambaugh (English) gave two public lectures in Lancaster County, Pa., 19 and 20 November on "The Story Behind the Novel," a presentation of the historical sources of *I Hear the Reaper's Song*. She spoke on the same subject 23 November at the Conrad Grebel College of the University of Waterloo.

Linda Fedigan and Owen Beattie (Anthropology) recently hosted the annual meetings of the Canadian Association of Physical Anthropology on the University of Alberta campus, with the assistance of Heather von Bloedau, Conference Officer (Housing and Food Services), and numerous volunteers from the Anthropology Department.

publications

Braun, Richard E. (Classics): *Persius Satires*, translation with introduction and commentary. Coronado Press: Lawrence, Kansas (1984): 154 pp.
Picard, Ellen I. (Law and Medicine): *The Legal Liability of Doctors and Hospitals in Canada*, Second Edition. Carswell Legal Publications Ltd., Toronto (1984): 556 pp.
Pocklington, T.C. (Ed.) (Political Science): *Liberal Democracy in Canada and the United States: An Introduction to Politics and Government*. Toronto: Holt, Rinehart and Winston of Canada (1984): 450 pp.
Jung, Richard (Sociology and Theoretical Psychology): "Levels and boundary conditions in the theory of action." In A. Pedretti and G. de Zeeuw (Eds.), *Problems of Levels and Boundaries*. London and Zürich: Princelet Editions (1984): pp. 155-180.

18 December, 11:45 a.m. R. Fedorak, "Diabetes and the GI Tract: Intestinal Adaptation of the Na-dependent Co-transporter in Streptozotocin Induced Diabetes." 3H200 Mackenzie Centre.
19 December, 8 a.m. Frank Witkowski, "Detection of Post-MI Patients Prone to Sudden Death." 6-103 Clinical Sciences Building.

Geography

14 December, 2 p.m. Jan Bednarski, "Questions on the Quaternary History of West-Central Ellesmere Island." 3-36 Tory Building.

Economics

14 December, 3 p.m. Richard Gilbert, University of California, Berkeley, "Entry Prevention and the Free-Rider Problem." 8-22 Tory Building.
17 December, 2 p.m. Mike Percy and Brad Reid, "Expectations and Fertility: Sweden 1813-1913." 8-22 Tory Building.

Canadian Institute of Ukrainian Studies

14 December, 7:30 p.m. Bohdan Krawchenko, "Soviet Ukraine During the Second World War." Heritage Lounge, Athabasca Hall.

Exhibitions

Ring House Gallery

Until 21 December. "Peace Earth Peace." An international correspondence/mail art exhibition.

Rutherford House

Until 23 December, noon to 5 p.m. A Celebration of Christmas Past—enjoy the atmosphere and activities of an earlier Christmas era.

Bruce Peel Special Collections Library

Until 11 January 1985. "The Gregory Javitch Collection: Two Aspects," and "Sing, Heavenly Muse!" The former contains rare books from the sixteenth and seventeenth centuries dealing with the exploration of the New World and the ceremonies and dances of Indians. Printed and manuscript laws and treaties document European effort to regulate Indian life and to remove native populations from areas of white settlement. The latter contains poetry from the Renaissance to the Present, in first and illustrated editions. Hours: Monday to Thursday, 8:30 a.m. to 6 p.m.; Friday, 8:30 a.m. to 5 p.m.; Saturday, noon to 5 p.m. B-7 Rutherford South.

service information

All information to be included in this column must reach the Office of Community Relations by 9 a.m. the Thursday prior to publication.

Coming Events

Lectures and Seminars

Medicine

14 December, 8 a.m. J. Vestrup, University of British Columbia, "Hyperbaric Oxygen Therapy in Anaerobic Infections." 2-115 Clinical Sciences Building.
17 December, 8 a.m. K.L. Bowes will speak at the Clinical Pathological Conference. 2-115 Clinical Sciences Building.
17 December, 12:30 p.m. R. Fedorak, College of Physicians and Surgeons of Columbia University, New York, "Diabetes and the GI Tract: Alpha-2 Adrenergic Agonists in the Treatment of Diabetic Diarrhea." University Hospital Amphitheatre.
17 December, 4 p.m. S. Shetty, "Opioids and E-C Coupling in Skeletal Muscle." 9-68 Medical Sciences Building.

Films

Germanic Languages

19 December, 7:30 p.m. "Rheingold" (1977). 17 Arts Building.

Radio and Television

Radio

Programs broadcast on CKUA radio 580 AM and 94.9 FM.

15 December, 7 p.m. University Concert Hall features a Faculty Recital with guests Jack Wilson, saxophone, and Karen McNaughton, piano.

19 December, 7:30 p.m. International Development—"The Newsmedia."

Television

Programs broadcast on ETV Q-9 and Shaw-13.

19 December, 7:30 p.m. "Canada, The World and

The Future"—Jamshed Mavalwala, Professor of Anthropology, University of Toronto, "Unity in Diversity: Chicé or Truism?"
19 December, 8 p.m. "Canada, The World and The Future"—Desmond Berghofer, Alberta Advanced Education, "Educating for Technological Change."

Sports

Basketball

28 to 30 December. Panda After Xmas Tournament. Varsity Gym.

Matters of Faith

Catholic Campus Ministry

St. Joseph's College Mass Time, September to April. Monday, Wednesday, Friday - 7:30 a.m., 12:10 and 4:30 p.m.; Tuesday, Thursday - 7:30 a.m., 12:30 and 4:30 p.m.; Saturday, 4:30 p.m.; Sunday - 9:30 and 11 a.m., 4 and 8 p.m.

Anglican - Presbyterian - United Chaplaincy

Bible study on Gospel of John—Tuesday, noon; Anglican Eucharist—Thursday, noon. Both in Meditation Room, 158A SUB.

Lutheran Campus Ministry

Sunday Worship with Eucharist - 10:30 a.m., Meditation Room
Thursday Evening Worship - 7:30 p.m., Lutheran Student Centre, 11122 86 Avenue.
Noon Hour Bible Study - Wednesdays at noon. Meditation Room

Faith Share

Mondays, 7 to 9 p.m. Group singing, sharing, teachings and discussions. All welcome. Contact Kim at 436-6346 or Curt at 433-9377 for further information. St. Joseph's Chapel.

Theatre

SUB Theatre

14 December, 2 p.m. University of Alberta Hospital School of Nursing Graduation Ceremony. By invitation only. For more information, call 432-6728 or 432-8322.

Non-Credit Courses

Computing Services

MTS (Michigan Terminal System)

MTS and Editor Fundamentals (Prerequisite)
AJ510 Operation and Visual Editing (Prerequisite)
MTS Overview (Prerequisite)

TEXTFORM

Introduction to Text Formatting (Prerequisite)

SPIRES

Introduction to SPIRES (Prerequisite)
Advanced SPIRES

Graphics

Integrated Graphics Overview (IG)

Statistics

Data Preparation for Statistical Packages (Prerequisite)

Introduction to SPSSx

SPSSx Conversion

Introduction to BMDP

Introduction to MIDAS

Introduction to MINITAB

Introduction to TROLL

Microcomputers

Introduction to the IBM PC

Introduction to the Personal Editor

Introduction to MultiMate

Advanced MultiMate

The above courses are offered regularly through the day with limited evening selections. Registration will be taken over the phone for all courses except evening courses. These may be made in person at 352 General Services Building, or by mail. Payment must accompany registration for all evening courses. Please make cheques payable to the University of Alberta.

Waiting List Courses

The following courses are only offered when a sufficient number of people express an interest.

Advanced Text Formatting

Courier Operation and Visual Editing

Introduction to Plotting

Introduction to Programming

Introduction to Typesetting

Introduction to APL

Introduction to the Array Processor

Introduction to APAL

Introduction to Clustan

Introduction to TSP

Introduction to Osiris

Introduction to Tell-A-Graf

For more information on any of the courses listed above, telephone the Training Coordinator at 432-2511, between 8 a.m. and 4 p.m., weekdays.

Faculty of Extension

Certificate Programmes

For further information on the programmes listed below, telephone 432-5545 or 432-3027 between 8:30 a.m. and 4:30 p.m., Monday to Friday.

Management Development

Personnel Administration

Computers and Business Data Processing

Industrial Security Management

Purchasing Management Development

Citation Programme

For further information on the following programmes, telephone the number listed behind the course.

Executive Development Programme for Women (432-5545 or 432-3027)
Supervisory Development Programme (432-5066)

Land Use Planning Studies

For further information on the courses listed below, telephone 432-2912.

Planning Commercial and Industrial Areas

Introduction to Small Towns

Regional Planning

Plans and Processes

Survey and Analysis (Field Trip)

Architecture

For further information on the course listed below, telephone 432-2912.

Managing an Architectural Practice

Industrial Courses

For further information on the courses listed below, telephone 432-2912.

Corrosion Control in Steam Systems

Maintenance Management

Liberal Studies

Please call 432-3033 for information on Winter/Spring course offerings.

One-Day French Immersion

visitors, guests, etc. Due to the current closure of Stadium Car Park, it may not be possible to provide parking for groups in the areas requested.

Kindly telephone Parking Services at 432-2236 for further information.

Scholarships, Fellowships and Awards

Pope John Paul II Commemorative Scholarships

Donor: The Students Finance Board. **Where tenable:** At post-secondary institutions in Alberta as designated by the Students Finance Board. **Level:** Must be enrolled full-time in an undergraduate or master's level program. **Field:** Native studies; international studies with respect to Third World countries; ecumenical studies. **Value:** Undergraduate level—\$5,000; Master's level—\$10,000. **Number:** Not more than two at the undergraduate level. Not more than four at the master's level. In the first year only three will be awarded, with a maximum of one at the undergraduate level and two at the master's level. **Duration:** One year. Extension to a second term is subject to an evaluation of progress by the Students Finance Board. A student may receive a maximum of two awards. **Conditions:** Must be an Alberta resident; course content and academic performance considered. Recipients may accept other awards, a teaching assignment or other remunerative assignments according to the policy of their institution. **Closing date:** 1 February 1985 for master's level. 1 July 1985 for undergraduate level. **Further information and application forms should be requested from:** Mr. Leon Lubin, Director, Alberta Heritage Scholarship Fund, Students Finance Board, 10025 106 Street, Edmonton, Alberta T5J 1G7. Telephone: 427-8640.

Awards Sponsored by the Canadian College of Teachers

Donor: The Canadian College of Teachers. **Where tenable:** Canadian institutions offering graduate degrees in education. **Level:** Master's and doctoral. **Field:** Education. The theses awards are directed to research findings with direct application to practicing teachers and administrators. **Value:** Varies. **Number:** One. **Conditions:** The applicant should be prepared to submit, on request, one copy of the entire thesis for examination before the final decision regarding an award is made. **Closing date:** 31 January 1985. **Further information and application forms should be requested from:** Ronald E. Johnston, FCCT, Secretary-Treasurer, The Canadian College of Teachers, 7546 10 Avenue, Edmonton, Alberta T6K 2T6. Telephone: 462-5103.

Queen Elizabeth Silver Jubilee Awards

Donor: Association of Universities and Colleges of Canada. **Where tenable:** At any Canadian university affiliated with the AUCC and which offers instruction in the student's second official language. **Level:** Undergraduate. **Field:** One year's continuation in the field of undergraduate study in which the applicant is enrolled at his home university. Translation programs are excluded. **Value:** \$5,000 plus transportation expenses of one return trip between the scholar's place of residence and the university attended. **Number:** Maximum of six.

Duration: One academic year—not renewable.
Conditions: For Canadian citizens and permanent residents only. One year of university must be successfully completed prior to the year of the award. Sufficient ability in a second official language is required to pursue disciplinary studies in that language. Preference given to students studying in the milieu of their second official language. **Closing date:** 15 February 1985 is the deadline to receive the application as well as the nomination by the university. **Further information and application forms should be requested from:** Student Awards Office, 252 Athabasca Hall, or AUCC, 151 Slater Street, Ottawa, Ontario K1P 5N1.

Positions Vacant

The University of Alberta is an equal opportunity employer but, in accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Associate Director Research Services (Temporary)

This position reports directly to the Director, Office of Research Services. The Associate Director is responsible for the administrative/managerial operation of the office and for the continuing program of computerization of grants and contracts information for the University. He/she is also responsible for administering University funding activities involving the Central Research Fund, Alberta Heritage Foundation for Medical Research, Natural Sciences and Engineering Research Council, etc., and for working closely with scholars' faculties, departments and committees on campus and with funding agencies.

Minimum requirements are a university degree or equivalent training and experience as well as demonstrated administrative skills.

Salary range: \$27,216 to \$40,824 per annum.

Starting date: Immediately.

Interested persons are invited to submit an application along with a résumé and names of three references to: Mr. Robert Armit, Director, Office of Research Services, 1-9 University Hall, University of Alberta, Edmonton, Alberta T6G 2J9

Non-Academic Positions

A hiring freeze was put in place 21 November 1984. This affects all Non-Academic vacancies previously advertised with the exception of positions funded from Trust/Research accounts and temporary positions.

Positions available as of 9 December 1984.

Clerk Steno III (Term to 31 March 1985) (\$1,294-\$1,561) Athletic Services
Secretary (Trust) (\$1,442-\$1,766) Chemistry
Secretary (Term to 31 March 1985) (\$1,442-\$1,766) Centre for the Study of Mental Retardation
Administrative Clerk (Term to March 31/85) (\$1,442-\$1,766) Extension (Local Government Studies)
Public Relations/Publications Assistant II (Term to 31 March 1985) (\$1,625-\$2,003) Housing and Food Services
Animal Assistant I (\$1,161-\$1,390) Provincial Laboratory

Housing Worker Supervisor (Term to March 31/85) (\$1,161-\$1,390) Housing and Food Services
Chemical Technician II (\$1,697-\$2,092) Civil Engineering
Biology Technologist I (Trust) (\$1,697-\$2,092)
Zoology
Technologist I (Trust) (\$1,697-\$2,092) Medicine (Foods and Nutrition)
Biochemistry Technologist I (Trust) (\$1,697-\$2,092) Cancer Research Group
Editorial Assistant (Trust, part-time) (\$883-\$1,091) Medicine (Scientific Affairs)
Nurse Practitioner (Trust) (\$2,486-\$3,009) Paediatrics
Electronics Technician III (Term to 31 March 1985) (\$2,003-\$2,486) Mineral Engineering
Programmer Analyst II (Term to 31 March 1985) (\$2,182-\$2,710) Computing Science
Technologist IV (Trust) (\$2,486-\$3,099) Health Services Administration and Community Medicine

For vacant library positions, please contact the Library Personnel Office, Basement, Cameron Library, telephone 432-3339.

Advertisements

Advertisements must reach the Editor by 3 p.m. on the Thursday prior to publication date which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Accommodations available

Private sale - Parkdale. Attractive, three-bedroom bungalow. Hardwood floors. Fireplace. Brick patio. Landscaped garden. Appliances. Finished basement. \$76,000. 439-5318, leave message.
Sale - Easy access University. Sunny, well maintained bungalow. Hardwood floors. Revenue suite, basement. Tenant will stay if needed. \$64,900, offers? Call Joyce Byrne, 435-6064, 436-5250. Spencer's.
Sale - Parkallen. Superb, keyhole crescent. Spacious, family home. Upgraded broadloom. Excellent suite down. Front drive, walk to University. \$87,900. Call Joyce Byrne, 435-6064, 436-5250. Spencer's.
Roommate needed - Preferably female, non-smoker, to share furnished, three-bedroom house, near University. Washer, dryer, garage. Small pets welcome. Available 1 January. Call Ruth, after 6 p.m., 439-0910.
Sale - South Garneau, 1,800', completely renovated, new kitchen, solarium, sauna, attached garage. 433-1262.
Rent - Two-bedroom main, two-bedroom basement suite. 11435 80 Ave. 438-1088.
Share apartment - Near University. Sunny, two-bedroom with scenic, riverside view for responsible female. 439-0607.
For rent - Mountain chalet for six. Just outside Jasper Park gate. 16 to 25 December, or portion thereof. 432-3818, 435-6504.
Sale - Windsor Park. Only \$129,500. Three-bedroom home, good location, large lot. Chris Tenove, 433-5664, 436-5250. Spencer's.



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Sale - Super condos. One and two bedrooms. Clari-dge, Essex, Norfolk. \$69,000-\$89,900. Chris Tenove, 433-5664, 436-5250. Spencer's.

Trade - Acreage by Sherwood Park for University home. For details, call Chris Tenove, 433-5664, 436-5250. Spencer's.

Sale - Southgate - Maimo - Pleasantview. Immaculate, large homes. Double garages. Asking \$84,900-\$92,000. For details, call Chris Tenove, 433-5664, 436-5250. Spencer's.

Sale - Belgravia Quietest crescent, 1,500 sq. ft. of comfort. Gleaming hardwood floors, Corian kitchen counters. West backyard, attached garage. Chris Tenove, 433-5664, 436-5250. Spencer's.

Goods for sale

Used IBM selectric and new electronic typewriters. Mark 9, HUB Mall. Open evenings, Saturdays. 432-7936.

Firewood: Dry, clean, split, convenient. \$3/box (20"x20"x13"). Call 439-3815 evenings.

LA34 DECWriter IV teleprinter. 300 Baud, 30 cps. Desk-top terminal. Full 128 ASCII character set, variable character size feature. EIA RS232C interface. Complete with LEX-11 acoustically coupled modem. Call Marlee, 468-3434.

Books bought and sold - The Edmonton Book Store in HUB Mall will pay cash for book collections and individual, rare items. Appraisals available. Open seven days a week. 433-1781.

Sapphire mink coat. Like new. Must sell. Size 12. 468-1254.

Nilus Le Clerc 62-inch, 12 harness, rising shed floor loom. Has 14 treadles. Good condition. \$1,200. Sandi, 942-4206

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.

Singing teacher, Eileen Turner, 439-4661.

Photocopying 8¢, word processing \$24/hour, speed typing course, word processing course, cerlox binding, typewriter repair. Mark 9, HUB Mall. Open evenings, Saturdays. 432-7936.

Professional typist - Word Processing. Specializing in theses and dissertations. Gwen, 467-9064

New York Broadway Show Tour, 4-8 April 1985. Flight, hotel, three shows, three dinners, Sunday brunch, city tour, \$1,200. For details, write: Peter Borchers, 1008, 8210 111 Street, Edmonton, Alberta T6G 2C7.

Professional Architectural Services: New homes/renovations. Call 973-3198 (local) for consultation.

Professional typist for papers, theses, résumés. 435-1509.

Academic staff: Supplementary healthcare reimburses treatment costs for backaches, stress tension at Back Basic Therapy. Maria Krieg, university-trained in Düsseldorf, offers: Heat, massages, chirogymnastics, interferential electrotherapy, 436-8059, 11610 75 Ave.

Quaker worship. Sundays, 11 a.m. Soroptimist Room, YWCA. 100 Ave. 103 St.

School of the Alliance Française

Winter French Courses
adults and adolescents

Starting 14 January

Please call
468-4340

The University of Alberta Chaplains' Association invites you to attend

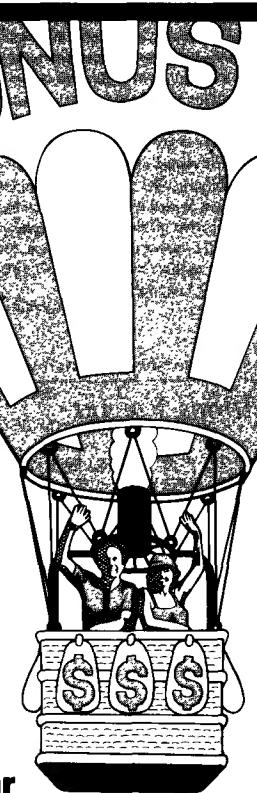
**Festival of
Nine Lessons and Carols**

to celebrate
Advent and Christmas

with the University of Alberta Mixed Chorus

Friday noon December 14
Convocation Hall, U of A

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For every \$100 you invest, you will be automatically entered for the Grand Draw: (maximum 25 entries per day)

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